

BHT 4/15/10

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| S1    | 148  | 337/85.ccls.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>09:14 |
| S2    | 262  | (philippe near3 robert).in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>09:17 |
| S3    | 8116 | (COMMISSARIAT near4<br>ATOMIQUE).as.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>09:33 |
| S4    | 58   | S2 S3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>09:33 |
| S5    | 26   | S4 (arm or beam)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>09:53 |
| S6    | 1    | 337/12.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>10:02 |
| S7    | 5    | 337/14.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>10:03 |
| S8    | 2    | 337/16.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>10:03 |
| S9    | 0    | 337/27.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>10:03 |
| S10   | 4    | 337/141.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND              | ON      | 2010/04/15<br>10:03 |

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| S11 | 8   | 337/139.ccls. ((arm or beam) switch substrate (MEMS or micro) electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:03 |
| S12 | 1   | 337/393.ccls. ((arm or beam) switch substrate (MEMS or micro) electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:04 |
| S13 | 12  | (S6 or S7 or S8 or S9 or S10 or S11 or S12)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:04 |
| S14 | 50  | ("20020027487"  <br>"20020140533"  <br>"20020145493"  <br>"20020160549"  <br>"20030034870"  <br>"20030038703"  <br>"20030102771"  <br>"20030137389"  <br>"20040061579"  <br>"20050206243"  <br>"20050219016"  <br>"20060131150"  <br>"4423401"   "5029805"  <br>"5058856"   "5065978"  <br>"5635750"   "5796152"  <br>"5905241"   "6091050"  <br>"6100477"   "6115231"  <br>"6153839"   "6236300"  <br>"6239685"   "6307452"  <br>"6310339"   "6376787"  <br>"6396368"   "6489857"  <br>"6621387"   "6657525"  <br>"6703916"   "6720851"  <br>"6768412"   "6787438"  <br>"6794101"   "6803534"  <br>"6806545"   "6812820"  <br>"6876482"   "6919784"  <br>"6924966"   "7002441"  <br>"7031137"   "7230513"  <br>"7283023"   "7372348"  <br>"7411792"   "7420444").<br>PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:05 |
| S15 | 194 | 200/181.ccls. ((arm or beam) switch substrate (MEMS or micro) electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:34 |
| S16 | 188 | S15 (pad or contact)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:34 |

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| S17 | 52   | S16 hold  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:34 |
| S18 | 24   | ("20030054584"  <br>"20040188785"  <br>"20050130339"  <br>"20050260792"  <br>"5121089"   "5258591"  <br>"5578976"   "5629565"  <br>"5638946"   "6046659"  <br>"6096149"   "6331257"  <br>"6402969"   "6404028"  <br>"6621392"   "6667245"  <br>"6720267"   "6800503"  <br>"6803559"   "6842097"  <br>"6861277"   "6951768"  <br>"7026695"   "7057251").<br>PN. OR ("7545234").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>10:37 |
| S19 | 30   | 60/527-529.ccls. ((arm or<br>beam) switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:45 |
| S20 | 4041 | ((arm or beam) (flexib\$4<br>or ben\$4 or deform\$4)<br>parallel switch substrate<br>(MEMS or micro)<br>electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:49 |
| S21 | 13   | S20 ((connect or attach or<br>fix) with (center or middle)<br>with (arm or beam))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>10:50 |
| S22 | 21   | "337"/\$.ccls. ((arm or<br>beam) (flexib\$5 or ben\$4<br>or deform\$4) ((contact or<br>pad) with substrate)<br>(MEMS or micro)<br>electrostatic ((thermal or<br>heat or means) near3<br>actuat\$3))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>11:18 |
| S23 | 35   | "200"/\$.ccls. ((arm or<br>beam) (flexib\$5 or ben\$4<br>or deform\$4) ((contact or<br>pad) with substrate)<br>(MEMS or micro)<br>electrostatic ((thermal or<br>heat or means) near3<br>actuat\$3))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>11:19 |

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| S24 | 11  | ("20030116417"   "20040050674"   "6069540"   "6452124"   "6720851").PN. OR ("7053736").URPN.   | US-PGPUB; USPAT; USOCR             | AND | ON | 2010/04/15 11:22 |
| S25 | 10  | ("5872496"   "6057520"   "6124650"   "6153839"   "6307169"   "6384353"   "6806545"   "7053736"   "7084724"   "7202763").PN. OR ("7501920").URPN.   | US-PGPUB; USPAT; USOCR             | AND | ON | 2010/04/15 11:33 |
| S26 | 33  | "60"/\$.ccls. ((arm or beam) (flexib\$5 or ben\$4 or deform\$4) ((contact or pad) with substrate) (MEMS or micro) electrostatic ((thermal or heat or means) near3 actuat\$3))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:36 |
| S27 | 508 | ((arm or beam) with (flexib\$5 or ben\$4 or deform\$4)) ((contact or pad) with substrate) (MEMS or micro) electrostatic ((thermal or heat or means) near3 actuat\$3))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:37 |
| S28 | 398 | S27 (electromechanical or (electro near2 mechanical))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:39 |
| S29 | 205 | S28 ((arm or beam) with (parallel))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:40 |
| S30 | 6   | S29 ((connect or attach or fix) with (center or middle) with (arm or beam))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:40 |
| S31 | 13  | S29 ((secur\$4 or mount or connect or attach or fix) with (center or middle) with (arm or beam))   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:40 |
| S36 | 63  | ((bimetal\$3 or (bi near2 metal\$3)) (contact or pad) (arm or beam) switch substrate (MEMS or micro) (electromechanical or (electro near2 (mechanical or static)) or electrostatic) ((thermal\$3 or heat or resist\$3) near3 actuat\$3)) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2010/04/15 11:50 |

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| S37 | 0  | 337/141.ccls.<br>((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel))).<br>clm. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:00 |
| S38 | 0  | 337/141.ccls.<br>((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:01 |
| S39 | 11 | ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:01 |
| S40 | 0  | 337/36.ccls. ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:56 |

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| S41 | 8   | 337/36.ccls. ((bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:56 |
| S42 | 15  | 337/365.ccls. ((bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>12:59 |
| S43 | 1   | 310/307.ccls. ((bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>13:08 |
| S44 | 4   | "310"/\$.ccls. ((MEMS or micro or electromechanical or electrostatic) switch (bistable or stable) (bimetal \$3 or (bi near2 metal\$3)) (arm or beam))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>13:09 |
| S45 | 2   | 60/529.ccls. ((MEMS or micro or electromechanical or electrostatic) switch (bistable or stable) (bimetal \$3 or (bi near2 metal\$3)) (arm or beam))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>13:12 |
| S68 | 21  | ("4959515"   "5121089"   "5578976"   "5629565"   "5638946"   "6040748"   "6046659"   "6057520"   "6115231"   "6153839"   "6229683"   "6331257"   "6440767"   "6624720"   "6646215"   "6768403").<br>PN. OR ("6842097").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>13:28 |
| S69 | 169 | 335/78.ccls. ((arm or beam) switch substrate (MEMS or micro) electrostatic actuat\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:02 |
| S70 | 0   | S69 ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel))) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:02 |

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| S71 | 1  | "335"/\$.ccls. ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:02 |
| S75 | 42 | ("4480162"   "4654555"   "4672257"   "4742263"   "4959515"   "5258591"   "5367136"   "5544001").<br>PN. OR ("5629565").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:21 |
| S76 | 9  | ("20030015936"   "20030058069"   "6417807"   "6469677"   "6625004"   "6686820"   "6924966").PN. OR ("7084724").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:28 |
| S77 | 31 | ("20030230403"   "3225820"   "3430455"   "3519067"   "3531752"   "3643734"   "4092697"   "4129881"   "4212346"   "4254431"   "4742867"   "4770004"   "4858678"   "5170930"   "5379601"   "5459352"   "5808874"   "6191944"   "6276144"   "6281573"   "6305174"   "6351952"   "6392890"   "6437240"   "6665186"   "6768412"   "7154369").<br>PN. OR ("7411792").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:30 |
| S78 | 6  | ("20020027487"   "6115231"   "6608268"   "6720851"   "7053736").<br>PN. OR ("7283023").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:31 |
| S79 | 9  | ("20020145493"   "6307452"   "6486425").<br>PN. OR ("6806545").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:32 |
| S80 | 30 | ("20020018334"   "4423294"   "4743722"   "5619061"   "5652559"   "5665997"   "6100477"   "6162657"   "6229683"   "6452124").PN. OR ("6803534").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:32 |

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| S81 | 40  | ("5635739"   "5929497"   "6100477"   "6143997"   "6307452"   "6331257"   "6373007").PN. OR ("6657525").URPN.                         | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:33 |
| S82 | 14  | ("5578976"   "5619061"   "5695810"   "5946176"   "6065424"   "6069540"   "6128961"   "6132586"   "6143997").PN. OR ("6489857").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:34 |
| S83 | 72  | ("5578976"   "5619061"   "5880921").PN. OR ("6307452").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:34 |
| S84 | 136 | (S80 or S81 or S82 or S83)   | US-PGPUB;<br>USPAT;<br>USOCR                | AND | ON | 2010/04/15<br>14:41 |
| S85 | 1   | ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)) S84                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:43 |
| S86 | 203 | ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam))                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:43 |
| S87 | 0   | S84 (((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:44 |
| S88 | 1   | S86 (((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:44 |
| S89 | 159 | S86 (parallel)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:45 |
| S90 | 17  | S89 ((arm or beam) with (parallel))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>14:45 |
| S94 | 0   | (switch (electro or micro) (arm or beam) with (direct \$3 with (attach or connect or fix or secure or mount)) with substrate).clm.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>15:10 |

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| S95  | 5 | (switch (arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | AND | ON | 2010/04/15<br>15:10 |
| S109 | 1 | (10/260598).APP.   | USPAT;<br>USOCR                             | AND | ON | 2010/04/15<br>15:30 |
| S110 | 1 | (11/296341).APP.   | USPAT;<br>USOCR                             | AND | ON | 2010/04/15<br>15:32 |

### EAST Search History (Interference)

| Ref # | Hits | Search Query  | DBs                         | Default Operator | Plurals | Time Stamp          |
|-------|------|---|-----------------------------|------------------|---------|---------------------|
| S32   | 123  | (philippe near3 robert).in.   | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>11:46 |
| S33   | 4025 | (COMMISSARIAT near4 ATOMIQUE).as.   | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>11:46 |
| S34   | 0    | (S32 or S33) ((arm or beam) switch substrate (contact or pad) (MEMS or micro) electrostatic actuat \$3).clm.  | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>11:48 |
| S35   | 0    | 337/85.ccls. ((arm or beam) switch substrate (contact or pad) (MEMS or micro) electrostatic actuat \$3).clm.  | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>11:48 |
| S46   | 0    | 337/141/\$.ccls. ((MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (center or middle) with (parallel))) | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>11:59 |
| S47   | 0    | 337/141.ccls. ((MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (center or middle) with (parallel)))    | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2010/04/15<br>12:00 |

|     |     |   |                             |     |    |                     |
|-----|-----|---|-----------------------------|-----|----|---------------------|
| S48 | 0   | 337/141.ccls. ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (center or middle) with (parallel))). clm. | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:00 |
| S49 | 11  | ((microswitch or switch or MEMS or micro or electromechanical or (electro near2 mechanical)) (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) ((arm or beam) with (secur\$4 or mount or connect or attach or fix) with (between or center or middle) with (parallel)))          | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:01 |
| S50 | 134 | 337/85.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:01 |
| S51 | 147 | 337/141.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:02 |
| S52 | 280 | (S50 or S51)  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:02 |
| S53 | 53  | S52 (arm or beam)   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:02 |
| S54 | 652 | 200/181.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:40 |
| S55 | 103 | 337/27.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:51 |
| S56 | 134 | 337/85.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>12:54 |
| S57 | 0   | 60/529.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>13:15 |

|     |   |   |                       |     |    |                  |
|-----|---|---|-----------------------|-----|----|------------------|
| S58 | 0 | 310/307.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm. | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:17 |
| S59 | 0 | 200/181.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm. | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
| S60 | 0 | 337/365.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm. | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
| S61 | 0 | 337/27.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.  | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
| S62 | 0 | 337/141.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm. | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
| S63 | 0 | 337/85.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.  | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
|     |   |   |                       |     |    |                  |

|     |   |   |                       |     |    |                  |
|-----|---|---|-----------------------|-----|----|------------------|
| S64 | 0 | "337"/\$.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.              | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:18 |
| S65 | 0 | "200"/\$.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.              | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:19 |
| S66 | 0 | "310"/\$.ccls. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)). clm.              | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:19 |
| S67 | 0 | ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal \$3 or (bi near2 metal\$3)) (arm or beam)).clm.                             | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:19 |
| S72 | 3 | (philippe near3 robert).in. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal \$3 or (bi near2 metal\$3)) (arm or beam))      | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:21 |
| S73 | 5 | (COMMISSARIAT near4 ATOMIQUE).as. ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)) | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 13:22 |

|     |    |  |                       |     |    |                  |
|-----|----|--|-----------------------|-----|----|------------------|
| S74 | 23 | ("4806815"   "5029805"   "5058856"   "5061914"   "5182910"   "5325880"   "5536963"   "5619061"   "5619177"   "5635750"   "5638946"   "5681024"   "5796152"   "6236300"   "6239685").PN. OR ("6812820").URPN. | US-PGPUB; USPAT       | AND | ON | 2010/04/15 13:22 |
| S91 | 23 | ("4806815"   "5029805"   "5058856"   "5061914"   "5182910"   "5325880"   "5536963"   "5619061"   "5619177"   "5635750"   "5638946"   "5681024"   "5796152"   "6236300"   "6239685").PN. OR ("6812820").URPN. | US-PGPUB; USPAT       | AND | ON | 2010/04/15 14:31 |
| S92 | 0  | ((MEMS or micro or electromechanical or electrostatic) ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)) "I34"                                | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 14:43 |
| S93 | 0  | ((contact or pad) with substrate) switch (bistable or stable) (bimetal\$3 or (bi near2 metal\$3)) (arm or beam)) "I34"   | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 14:43 |
| S96 | 0  | 337/85.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.   | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 15:07 |
| S97 | 0  | 337/141.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.  | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 15:07 |
| S98 | 0  | 337/27.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.   | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 15:08 |
| S99 | 0  | 337/365.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.  | US-PGPUB; USPAT; UPAD | AND | ON | 2010/04/15 15:08 |

|      |    |  |                             |     |    |                     |
|------|----|--|-----------------------------|-----|----|---------------------|
| S100 | 0  | 200/181.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:08 |
| S101 | 0  | 60/529.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:08 |
| S102 | 0  | 310/307.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm.  | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:08 |
| S103 | 2  | "310"/\$.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm. | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:08 |
| S104 | 0  | "200"/\$.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm. | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:09 |
| S105 | 1  | "337"/\$.ccls. ((arm or beam) with (direct\$3 with (attach or connect or fix or secure or mount)) with substrate).clm. | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:09 |
| S106 | 62 | ((arm or beam) with (direct \$3 with (attach or connect or fix or secure or mount)) with substrate).clm.               | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:09 |
| S107 | 0  | S106 (swtich).clm.   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:09 |
| S108 | 5  | S106 (switch).clm.   | US-PGPUB;<br>USPAT;<br>UPAD | AND | ON | 2010/04/15<br>15:09 |

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